

LCD Backlights

Abstract Doc

Category: Light Guide\Slab, Light Guide\Wedge, Light Guide\Structure on Top Surface, Diffuser\Bulk, Enhance. Film\Prism Up, Enhance. Film\Prism Down, Advantage\Brightness, Advantage\Uniformity

Category Definition: 

[Link to Atlas Electronic Library Translation Services](#)

Title:

Back light for liquid-crystal display device - has lenticular lens unit wholly formed with optical diffusion part of optical sheet arranged on transparent surface of light-guide plate

Patent Assignee:

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Abstract:

Abstract (Basic): JP 09145932A

The back light has a light-guide plate (10) that radiates light from a cold cathode tube (11) used as a linear light source. An optical sheet (14) is arranged on a transparent surface of the light-guide plate.

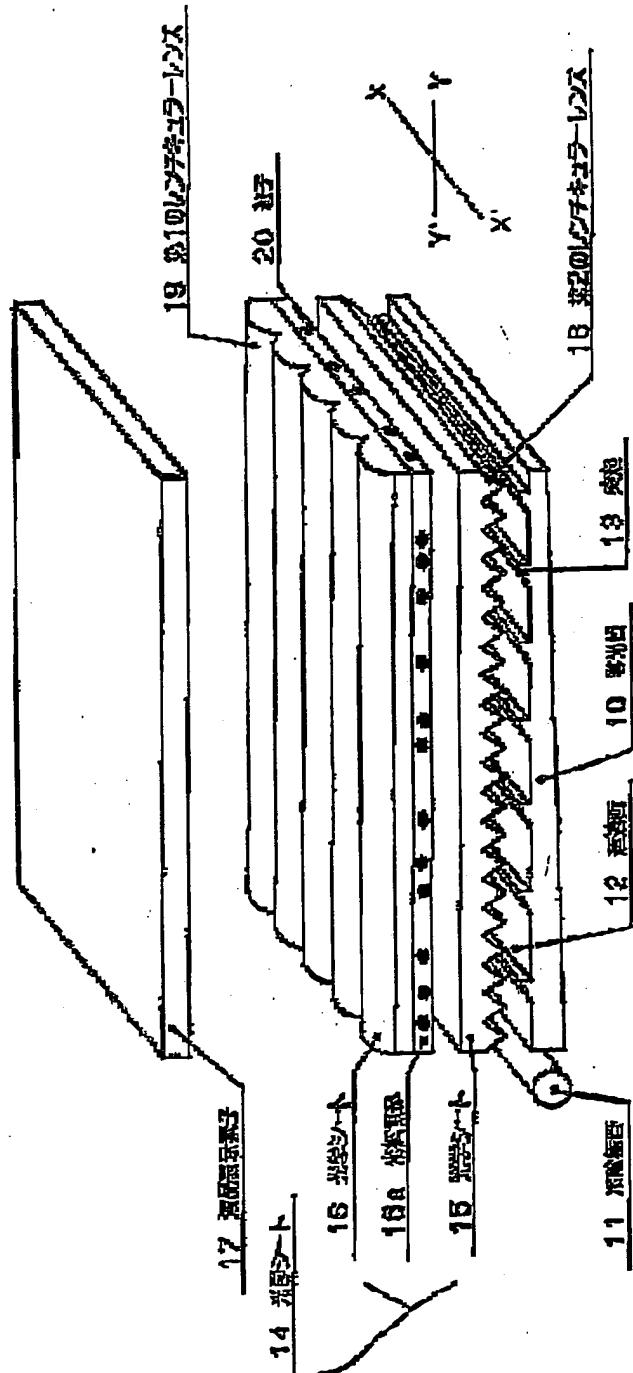
An optical processing surface (13) of the light-guide plate radiates the light from the transparent surface to the external. A lenticular lens unit (19) having a columnar lens of curved surface, is wholly formed with an optical diffusion part (16a) of the optical sheet.

ADVANTAGE - Minimises optical loss in each optical element by controlling reflection and refraction, obtaining high brightness. Prevents generation of black line by refracting light in several directions, thus preventing reduction in transverse-plane brightness.

Dwg.1/20

Clipped Images:

Engineering Drawing:



Patent Family: If available, click on fulltext doclink to view the associated fulltext/image doc.

Fulltext Doclink	Cntry	Serial	Kind	Date	Week	Pages	Lang
	JP	09145932	A	19970606	199733	014	

Priorities:

Country	Serial	Date	Type
JP	0305706	19951124	A